

s/n: 10/532,382  
date: 5/13/07

2485 (359/687,688,690,713-716,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
954857 @pd>="20061101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
15774 @ad>="20061101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
955888 2 or 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
91 1 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:46
(lens and first and second and third and objective and image and 2 convex and aspherical and inflection and concave).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:47
2485 (359/687,688,690,713-716,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
954857 @pd>="20061101"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 5:27
9 S113 and "f.sub.1"	US-PGPUB; USPAT	5/14/07 3:44
(US-20060126193-\$ or US-20010015856-\$ or US-20040021957-\$ or US-20050275950-\$ or US-20030223129-\$ or US-20040179274-\$ or US-20050007481-\$).did. or (US-6927925-\$ or US-6795253-\$ or US- 6985307-\$ or US-6930841-\$ or US-6011648-\$ or US-7061695-\$ or US-5071235-\$ or US-6028711-\$ or US-6441971-\$ or US-7099092-\$ or US-6980372-\$ or US-6825993-\$ or US-5642229-\$ or US-5329363-\$ or US-4109995-\$ or US-4776681-\$ or US-5130850-\$ or US- 4682862-\$ or US-5327290-\$ or US-4792217-\$ or US-6741403-\$ or US-5296967-\$ or US-5357373-\$ or US-5237456-\$ or US-7002757-\$ 34 or US-5386321-\$).did. or (US-7061694-\$).did.	US-PGPUB; USPAT	5/14/07 3:44
3 ("20040021957"   "6795253"   "6844989").PN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 3:26
4 (("20030058546") or ("20040090685")).PN. ("4540249"   "5071235"   "5087988"   "5760966").PN. OR 7 ("6844989").URPN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 3:26
2 ("5398136").PN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 3:22
8 ("20030058546" "20040090685" "6466377" "6844989").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 3:20
114 (lens or optic) with aspheric\$4 with inflection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:55
4 S100 and S105	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:29

1 nobutaka-minefuji\$9.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:25
165481 asahi.as.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:25
106 S104 and (inflection or inflexion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:25
17 S1 and lens and positive and negative and meniscus	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:24
2397 (359/687,688,690,713-716,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	5/14/07 2:15
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27 "5296967"   "5329363"   "5404246").PN. OR ("5808804").URPN.	US-PGPUB; USPAT; USOCR; US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 18:10
459 S89 not S75	US-PGPUB; USPAT; USOCR	11/6/06 17:36
4 ("5066113").PN. OR ("5940219").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 17:34
1 ("5940219").PN. OR ("6961191").URPN. ("20030210475"   "20040061953"   "20040150893"   "20050094292"   "6259570"   "6441971"   "6490102"   "6624953"   "6747810"	US-PGPUB; USPAT; USOCR	11/6/06 17:32
10 "6804067").PN. OR ("7072123").URPN. ("6101035"   "6147816"   "6259570"   "6362925").PN. OR	US-PGPUB; USPAT; USOCR	11/6/06 17:13
8 ("6490102").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 17:10
6 ("3141921"   "3415592"   "5642230").PN. OR ("6362925").URPN.	US-PGPUB; USPAT; USOCR; US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 17:06
207 (359/716).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 16:29
33 S75 and S90	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 16:29
1938 (359/687,688,690,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 16:19
904 (lens or optic\$4) with inflect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 15:48
13890 (lens or optic\$4) with meniscus	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 15:48
1894 (lens or optic\$4) with meniscus with aspheric\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 15:48

180 S75 and S87 ("2417330"   "2440088"   "2468564"   "2479907"   "2502543"   "2552672"   "2638034"   "2660094"   "2737849"   "2865253"   "3429997"   "3567304"   "3778133"   "3800085"   "3817604"   "3868173"   "3951523"   "3980399"   "3998527"   "4099848"   "4181409"   "4240701"   "4300817"   "4348081"   "4397520"   "4474437"   "4479695"   "4530575"   "4548480"   "4561736"   "4564269"   "4577935"   "4595263"   "4603950").PN. OR 76 ("4682862").URPN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 15:48
2 ("20040161257").PN.	US-PGPUB; USPAT; USOCR; US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 15:00 11/6/06 15:00
4 ("6441971"   "6728047"   "6747810").PN. OR ("6977779").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 13:45
11 ("4682862"   "4685774"   "4707084").PN. OR ("4792217").URPN.	US-PGPUB; USPAT; USOCR; US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 13:14 11/6/06 13:02
32 (lens or optic\$4) same inflect\$4 same meniscus ("2417330"   "2440088"   "2468564"   "2479907"   "2502543"   "2552672"   "2638034"   "2660094"   "2737849"   "2865253"   "3429997"   "3567304"   "3778133"   "3800085"   "3817604"   "3868173"   "3951523"   "3980399"   "3998527"   "4099848"   "4181409"   "4240701"   "4300817"   "4348081"   "4397520"   "4474437"   "4479695"   "4530575"   "4548480"   "4561736"   "4564269"   "4577935"   "4595263"   "4603950").PN. OR 76 ("4682862").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 13:01
84 ("4776681").URPN. ("5251069"   "5303087"   "5973848"   "5999337").PN. OR 7 ("6747810").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 12:53
12 ("4776681"   "4865435").PN. OR ("5251069").URPN.	US-PGPUB; USPAT; USOCR	11/6/06 12:52
1935 (359/687,688,690,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 12:48
12 S74 and S75 ("6101035"   "6147816"   "6259570"   "6362925").PN. OR 8 ("6490102").URPN. ("20030210475"   "20040061953"   "20040150893"   "20050094292"   "6259570"   "6441971"   "6490102"   "6624953"   "6747810"   10 "6804067").PN. OR ("7072123").URPN. ("4721378"   "5828498"   "6259570"   "6441971").PN. OR 7 ("6804067").URPN.	US-PGPUB; USPAT; USOCR; US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/6/06 12:48 11/2/06 18:27
2 ("6560043"   "6804067").PN. OR ("6927925").URPN.	US-PGPUB; USPAT; USOCR	11/2/06 18:20

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1938 (359/687,688,690,758,765,766,773-775,785).CCLS.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/2/06 15:56  11/2/06 15:55  11/2/06 15:55
17 S66 and inflect\$4		
8 ("5398136"   "5940219"   "6441971").PN. OR ("6795253").URPN. 1 2002-413854.NRAN.	US-PGPUB; USPAT; USOCR DERWENT	11/2/06 13:18 11/2/06 13:16
4 ("5066113").PN. OR ("5940219").URPN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/2/06 13:16  11/2/06 13:15
2 ("6028711").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/2/06 13:15  11/2/06 13:15
6 ("5940219" "6028711" "6441971").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/2/06 13:15  11/2/06 13:09
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8 ("4300817").PN. OR ("5642229").URPN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/2/06 12:09  11/2/06 11:57
2 ("20050275950").PN. ("3912379"   "4212517"   "4525039"   "4787724"   "4892398"   "5050970"   "5606461"   "5739965"   "5999334"   "6011648"   21 "6282033").PN. OR ("6441971").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:57
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3 ("6414802"   "6441971").PN. OR ("6930841").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:51
2 ("20040179274"   "6795253").PN. OR ("6980372").URPN. 0 ("2005/0275950").URPN.	US-PGPUB; USPAT; USOCR USPAT US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:44 11/1/06 10:38  11/1/06 10:37
2089 S48 same S49 same S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:37  11/1/06 10:37
3499 S22 with S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:37  11/1/06 10:37
5 S31 same S50	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:37  11/1/06 10:36
3615 S21 with S47	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:36

56046 meniscus or concav\$2convex	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:36
6 S31 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:35
350 S43 and S44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 10:32
50 S23 with S31	US-PGPUB; USPAT; USOCR	11/1/06 10:31
1670 S32 same S33	US-PGPUB; USPAT; USOCR	11/1/06 10:31
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6 ("6844989").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:26
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27 "4932764").PN. OR ("5071235").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:16
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8 ("5398136"   "5940219"   "6441971").PN. OR ("6795253").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:14
3 ("20040021957"   "6795253"   "6844989").PN. OR ("7099092").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 10:14
0 (10/425900).APP.	USPAT; USOCR	11/1/06 10:08
12 S32 and S33 and "321"	US-PGPUB; USPAT; USOCR	11/1/06 10:05
2278 S22 with S25 with S27	US-PGPUB; USPAT; USOCR	11/1/06 10:05
15 S32 and S33 and S34	US-PGPUB; USPAT; USOCR	11/1/06 10:05
16057 inflect\$4	US-PGPUB; USPAT; USOCR	11/1/06 10:04
2378 S21 with S25 with S26	US-PGPUB; USPAT; USOCR	11/1/06 10:04
20339 lens with negative	US-PGPUB; USPAT; USOCR	11/1/06 10:03
1 S17 same inflection	US-PGPUB; USPAT; USOCR	11/1/06 10:03
348 lens with inflect\$4	US-PGPUB; USPAT; USOCR	11/1/06 10:03
12234 lens near2 negative	US-PGPUB; USPAT; USOCR	11/1/06 10:03
53 lens near2 inflection	US-PGPUB; USPAT; USOCR	11/1/06 10:03
291 lens with inflection	US-PGPUB; USPAT; USOCR	11/1/06 10:03
20750 lens with positive	US-PGPUB; USPAT; USOCR	11/1/06 10:02
7318 lens with meniscus	US-PGPUB; USPAT; USOCR	11/1/06 10:02
8094 lens with aspherical	US-PGPUB; USPAT; USOCR	11/1/06 10:02
103697 first with lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02
97558 second with lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02
35343 third with lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02

48785 first near2 lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02
46760 second near2 lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02
15308 third near2 lens	US-PGPUB; USPAT; USOCR	11/1/06 10:02
6013 lens near2 aspherical	US-PGPUB; USPAT; USOCR	11/1/06 10:02
6174 lens near2 meniscus	US-PGPUB; USPAT; USOCR	11/1/06 10:02
13423 lens near2 positive	US-PGPUB; USPAT; USOCR	11/1/06 10:02
13 S17 and inflection	US-PGPUB; USPAT; USOCR	11/1/06 9:57
8 ("5398136"   "5940219"   "6441971").PN. OR ("6795253").URPN.	US-PGPUB; USPAT; USOCR	11/1/06 9:56
381 S11 same S16	US-PGPUB; USPAT; USOCR	11/1/06 9:47
21496 S12 same S13 same S14	US-PGPUB; USPAT; USOCR	11/1/06 9:47
2265 S10 same S15	US-PGPUB; USPAT; USOCR	11/1/06 9:47
3773 S8 same S9	US-PGPUB; USPAT; USOCR	11/1/06 9:46
4320 S6 with S7	US-PGPUB; USPAT; USOCR	11/1/06 9:45
4515 S5 with S7	US-PGPUB; USPAT; USOCR	11/1/06 9:45
("3912379"   "4212517"   "4525039"   "4787724"   "4892398"   "5050970"   "5606461"   "5739965"   "5999334"   "6011648"   21 "6282033").PN. OR ("6441971").URPN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 9:44
6 ("5940219" "6028711" "6441971").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	11/1/06 9:37
295 KUBOTA-YOJI\$9.in. or MATSUI-TOSHIO\$9.in.	IBM_TDB	4/7/06 15:03

## Interference Search History

s/n: 10/532,382  
date: 5/13/07

(lens and first and second and third and objective and image and  
2 convex and aspherical and inflection and concave).clm.

US-PGPUB; USPAT

5/14/07 5:47